CUELUX®

SOFTWARE LIGHTING CONTROL

User's Guide

Version 1.3

Written for Cuelux 1.02 build 13

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Cuelux Workflow

Welcome to the Cuelux User's Guide. This manual will describe the Cuelux software by guiding you through the software. The following diagram explains the workflow of the software:

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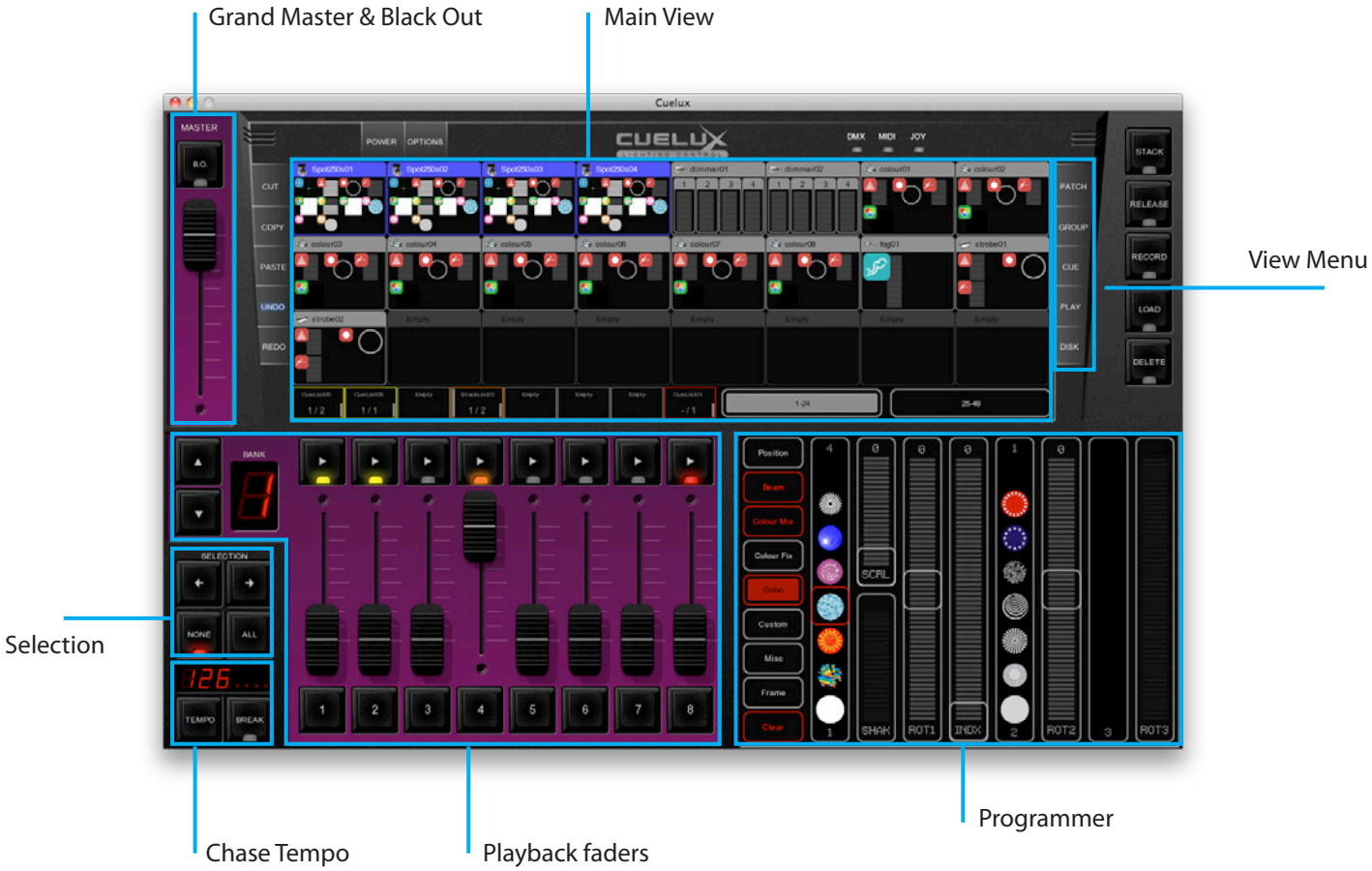
! If, after consulting this manual, you still have questions then you can obtain additional information and help through the online support forum. Cuelux users and employees of Visual Productions share their experiences and tips on this forum. You can find the forum at http://www.visualproductions.nl/forum

Overview


Grand Master & Black Out
Main View
View Menu
Selection
Chase Tempo
Playback faders
Programmer

1 Install the CueCable Driver

CueCable

Cuelux on Mac OS

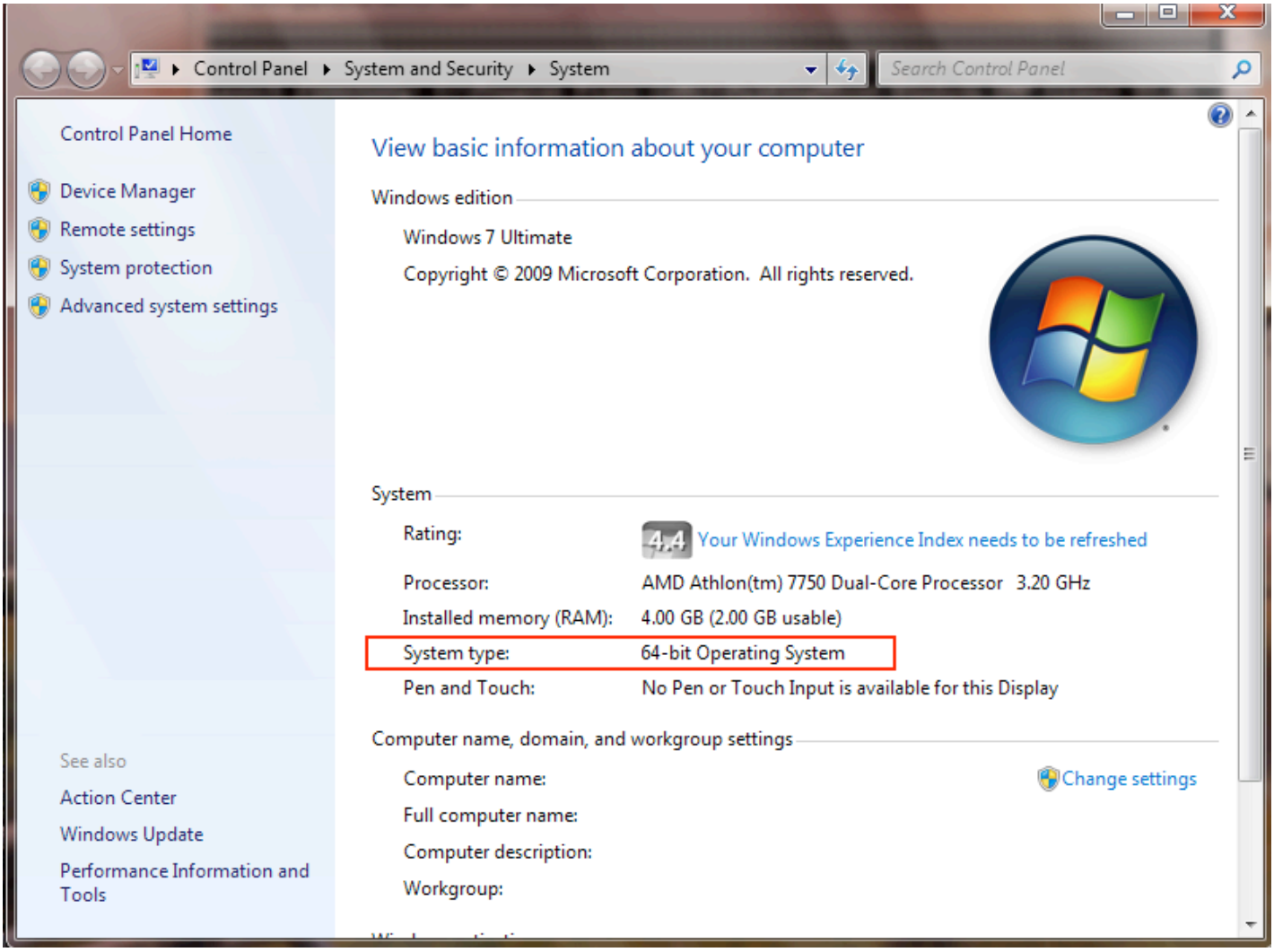
Just connect the CueCable to a free USB port on your Apple computer and go to "Set Options" on page 8. Mac OS doesn't need a specific USB driver.

Cuelux on Windows: 32-bit or 64-bit?

Installation of the Cuecable differs for the 64-bit and the 32-bit version of Windows 7.

To find out if your computer is running a 32-bit or 64-bit version of Windows in Windows 7 or Windows Vista, do the following:

- Open System by clicking the Start button , right-clicking Computer, and then clicking Properties.
- Under System, you can view the system type.



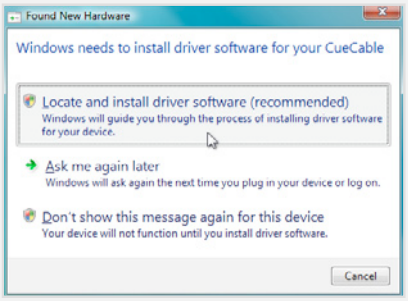
Driver installation on Windows 7 32-bit

Step 1

Connect the CueCable to a free USB port on your computer.

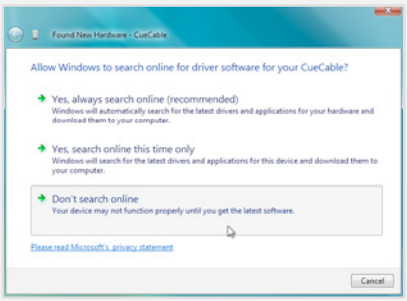
Step 2

Click "Locate and install driver software (recommended)"


Found New Hardware
Windows needs to install driver software for your CueCable
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

Step 3

Click "Don't search online"


Found New Hardware - CueCable
Allow Windows to search online for driver software for your CueCable?
Yes, always search online (recommended)
Yes, search online this time only
Don't search online
Your device may not function properly until you get the latest software.
Please read Microsoft's privacy statement
Cancel

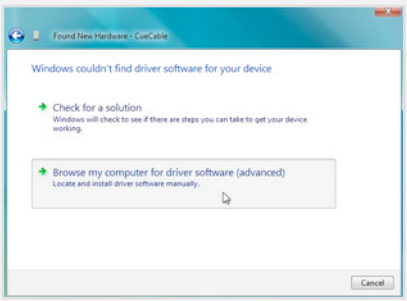
Step 4

Select "I don't have the disc. Show me other options."

Found New Hardware - CueCable
Insert the disc that came with your CueCable
If you have the disc that came with your device, insert it now. Windows will automatically search the disc for driver software.
I don't have the disc. Show me other options.
Next
Cancel

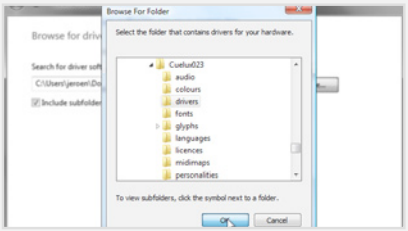
Step 5

Click "Browse my computer for driver software"


Found New Hardware - CueCable
Windows couldn't find driver software for your device
Check for a solution
Windows will check to see if there are steps you can take to get your device working.
Browse my computer for driver software (advanced)
Locate and install driver software manually.
Cancel

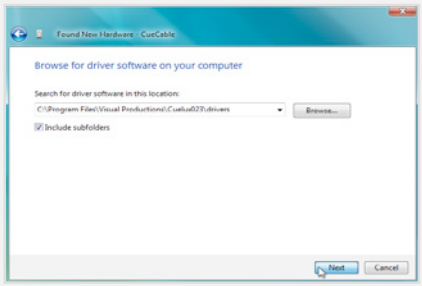
Step 6

Click "Browse" and select the "drivers" folder in the folder where you've installed Cuelux (for example "c:\program files\visual productions\Cuelux023\drivers").



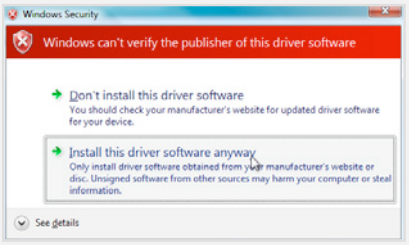
Step 7

Click OK and press "Next".



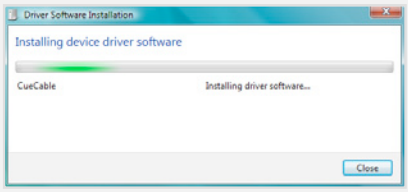
Step 8

When this warning appears, click "Install this driver software anyway".


Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details

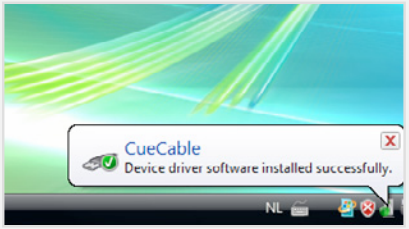
Step 9

Windows will install the device driver software.



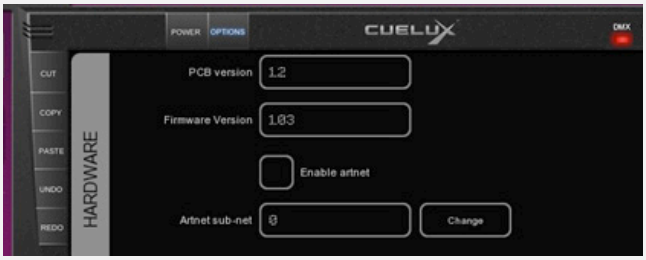
Step 10

The CueCable driver software is successfully installed!



Step 11

Run Cuelux and check in the 'Options' -> 'Hardware' that the CueCable is detected.



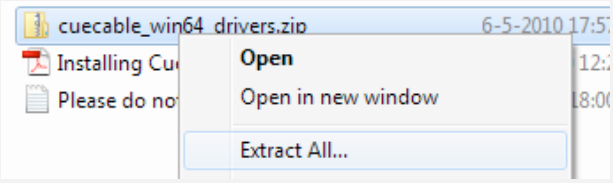
Driver installation on Windows 7 64-bit

Step 1

Make sure the CueCable DMX interface is unplugged

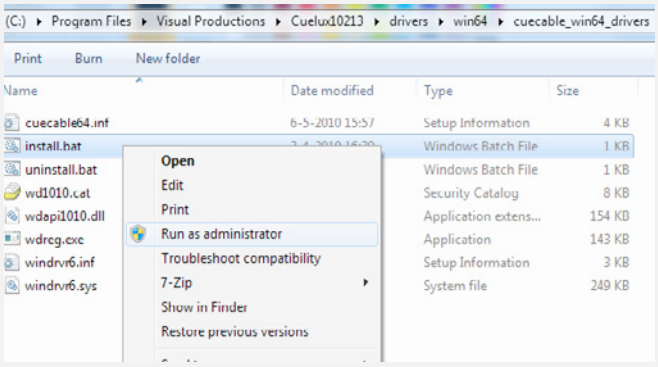
Step 2

Unzip the cuecable_win64_drivers.zip in the Program Files/Visual Productions/Cuelux/drivers/win64 folder, by right-clicking on the file and selecting "Extract All". When finished, click Finish to show the extracted files.



Step 3

Right click on install.bat, choose **Run as administrator**



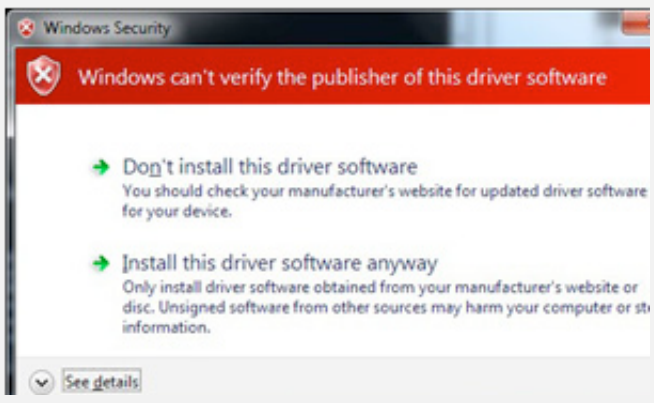
Step 4

You can trust 'Jungo'; this is the name of the supplier of the driver.

Windows Security
Would you like to install this device software?
Name: Jungo
Publisher: Jungo LTD
Always trust software from "Jungo LTD".
Install
Don't Install
You should only install driver software from publishers you trust. How can decide which device software is safe to install?

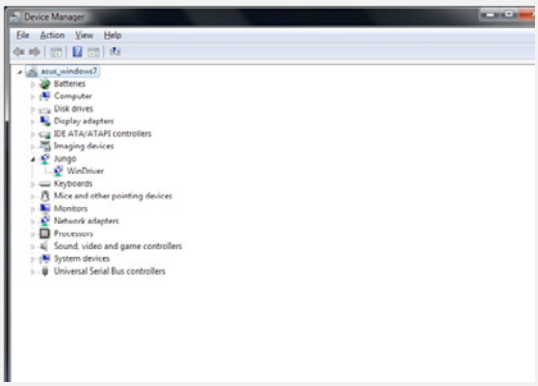
Step 5

Windows can't verify the publisher of the CueCable; Click 'Install this driver software anyway'


Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or st information.
See details

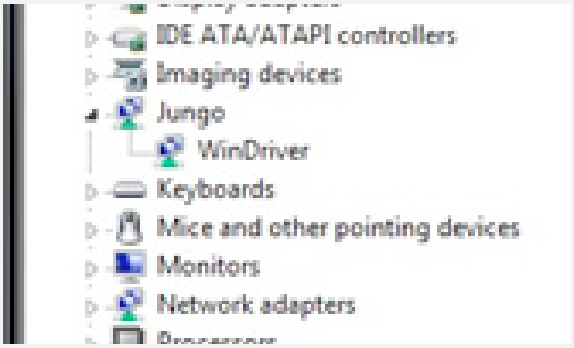
Step 6

Check your Device Manager. You can reach the Device Manager through: Start, Control Panel, Device Manager



Step 7

It should display class 'Jungo' containing item 'Windriver6'.

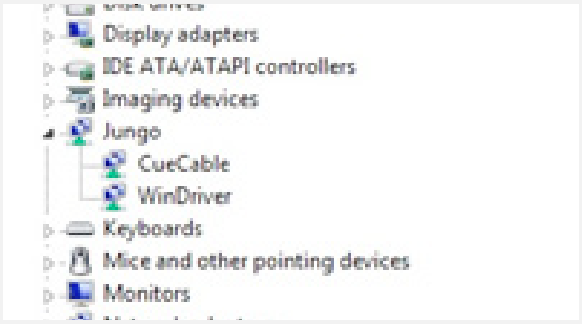


Step 8

Plug in the CueCable DMX Interface

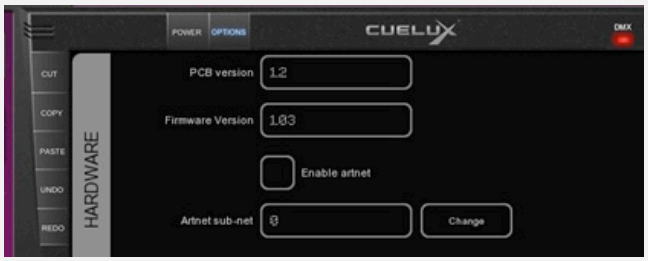
Step 9

Check your Device Manager. In the class 'Jungo' it should now also show item 'CueCable'.



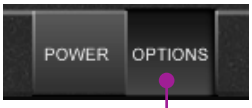
Step 10

Run Cuelux and check in the 'Options' -> 'Hardware' that the CueCable is detected.



2 Set Options

Before we start using Cuelux, let's tweak some settings and configure the system. Open the OPTIONS view:



You can choose a language for the software's menus

Cuelux is updated regularly to provide you with new features, bugfixes and new or improved personality-files. To check for updates, click CHECK NOW

Cuelux has optimized user-interfaces for several screen resolutions. For example, the 1280x1024 version provides you with 8 extra playback-buttons in 8 banks. For optimal use of the software, select your screen size or select Full Screen.

When enabled, the highest RGB Colour Mix value out of all active cuelists will be outputted. The "Highest" colour is white (RGB 255,255,255).
When disabled, the most recently changed value for RGB Colour Mix will be outputted (LTP).

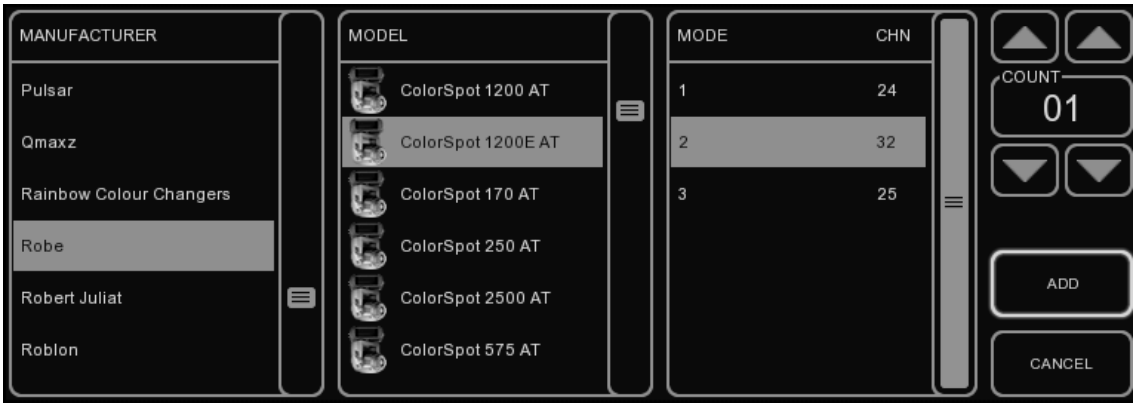
! **TIP**: To use Cuelux with an external visualizer or to output DMX via a third-party Art-net Node, connect the CueCable to your computer and click ENABLE ART-NET on the Hardware page. At the Hardware page you can change the Art-net universe on which Cuelux outputs data.

3 Create the Patch

The PATCH view allows you to setup the DMX fixtures which are connected to Cuelux.

Adding fixtures

Click ADD to open the Add Fixture dialog.



Browse the manufacturers list, and choose the MANUFACTURER of the first fixture you would like to add.

To quickly find a manufacturer, start typing the name of the manufacturer you're looking for on your keyboard. While typing, the list will jump to the correct manufacturer in the list.

Browse the MODELs for the selected manufacturer and choose one by clicking. To quickly find a model in a long list, click on the "model" list and start typing the name of the model you're looking for.

Remove fixtures

To remove one or more fixtures from the patch, select them in the Patch view by clicking or dragging and click REMOVE. To remove all fixtures, click REMOVE and keep the button pressed for at least 1 second.

Replace fixtures

If you've pre-programmed a show for a couple of fixtures, and find out the fixtures are running in a different mode or are even a completely different fixture when on location, the REPLACE tool can help you.
Select the fixtures you would like to replace by clicking or dragging in the Patch view and click REPLACE. This will open the CHANGE FIXTURE dialog, that will look almost like the ADD FIXTURE dialog. Choose another mode for the same model, or choose even another model.

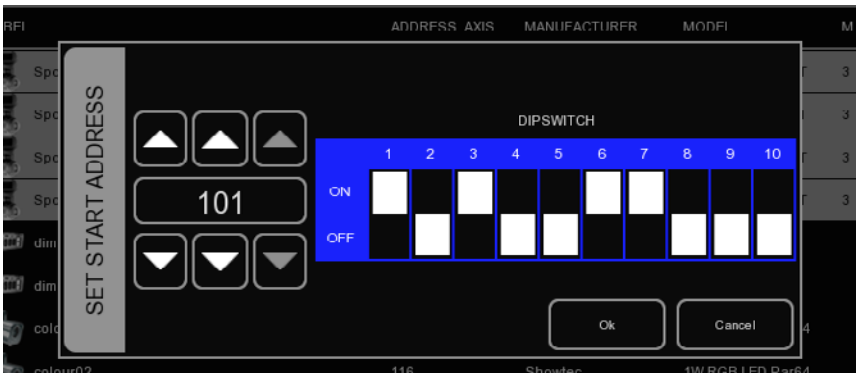
! **TIP**: Would you like to control a fixture with Cuelux that is not listed in the personality list? Please request the fixture on the Visual Productions Forum (http://forum.visualproductions.nl) and include a link to the user-manual or DMX-charts . We provide new personality files as a free service.

Rename fixtures in the patch

To give your fixtures a more clear name, select 1 or multiple fixtures and press RENAME. Type a new name for the fixture and click OK or press <ENTER.>. If you've renamed multiple fixtures, Cuelux will automatically add 01, 02, 03 etc. to the name you've entered.

Address fixtures in the patch

Cuelux automatically sets the DMX address when adding fixtures to the patch, by finding the first available DMX channel in your configuration. However, if you want to change the address, select 1 or multiple fixtures and click ADDRESS.
Enter the new address and click OK. If you had multiple fixtures selected, Cuelux will set the entered address for the first selected fixture and will automatically have the next selected fixtures follow the previous ones.
For example, if you select 4 8-channel dimmers in the patch, click ADDRESS and enter "101". This will result in addresses 101, 109, 117 and 125 for the selected dimmers.

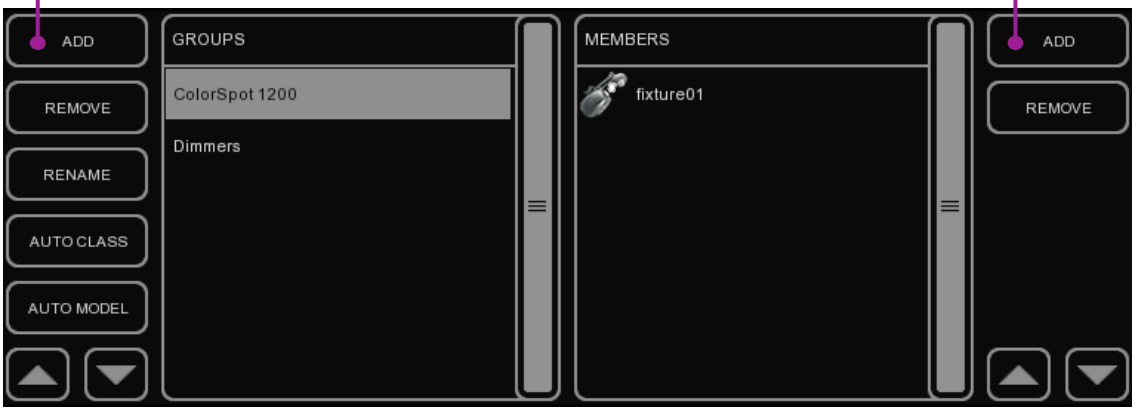


4 Make Groups

The GROUP menu enables you to create groups with fixtures and/or sub-fixtures. This makes selection of groups or (sub) fixtures easy and allows you to use submasters per group (chapter 8).

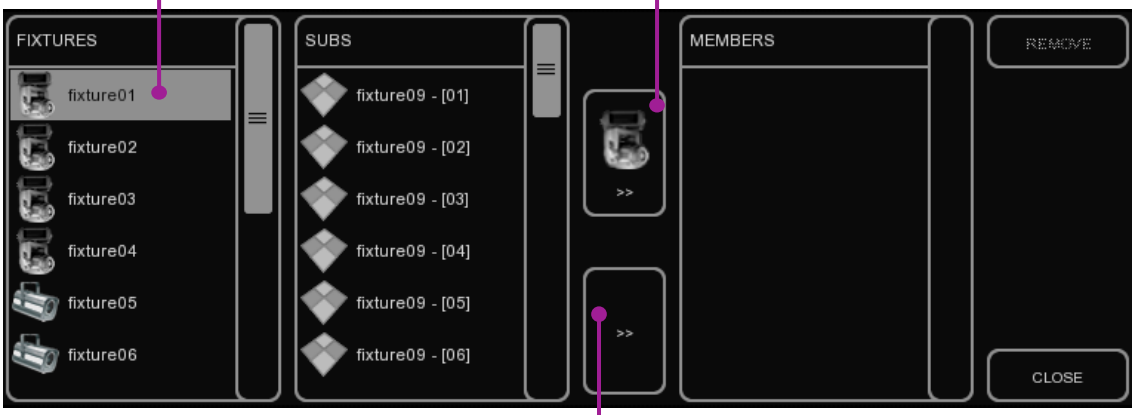
Add a group with the ADD button

Select the new Group and add fixtures to the group by clicking ADD on the right side of the display



Select fixtures in the FIXTURES list

Click to add all fixtures of the selected type to the group



Click ">>" to add the selected fixtures to the group

! **TIP**: Have you deleted a group by accident? Click the hardware UNDO button at the left side of the display. Have you clicked UNDO twice by accident? Click REDO to redo. This works for all actions in the software!

! **TIP**: The software can automatically create groups for you. Click AUTO CLASS in the GROUP menu and the software will automatically create groups per fixture-type. Click AUTO MODEL and the software creates groups per model.

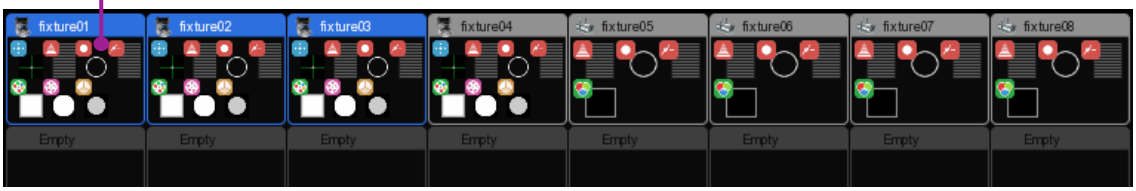
! **SUB-FIXTURES**
Cuelux uses the concept of sub-fixtures. This means that some fixtures consist of multiple sub-fixtures, like a 10-channel dimmer rack is - in our terms - just one fixtures with 10 sub-fixtures. This also works for LED fixtures with multiple segments/pixels. In this manner the maximum of 24 will not be reached that quickly (you can add 24 x 10 = 240 dimmer channels). The reason behind the concept of sub-fixtures is that it makes patching easier; you only add the physical fixtures to your patch and you don't have to worry about setting starting addresses per dimmer channel, or worse, per LED segment.

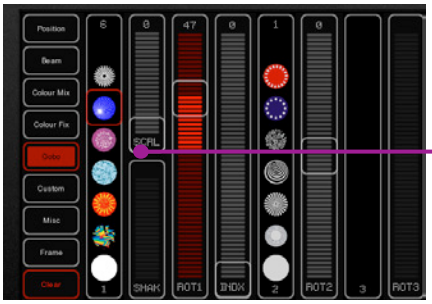
5 Program a Cuelist

A lightshow in Cuelux consists of Cuelists. A Cuelist is a sequence of one or more lighting scenes which are called Cues. To create a Cuelist, follow the next steps.

Make sure you're in the main view. To close any open menu, click the highlighted menu-button again.

1 Select fixtures by clicking them in the main view, or use the SELECTION buttons at the bottom left of your screen.





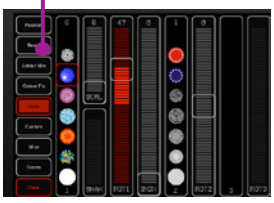
Change attributes for the selected fixtures in the Programmer view, for example change the Gobo on the Gobo page.

2

3

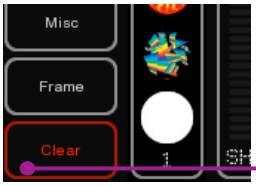
4 Click RECORD and click the GO button for the playback where you want to create your new Cuelist. Cuelux creates a Cuelist with one Cue, assigned to the chosen playback.

5 Change the attributes in the Programmer for the second Cue



6 Click RECORD and click the same GO button as you used for the previous cue. Cuelux now creates a second Cue in the same Cuelist.

7



Now clear the Programmer's memory by pressing the CLEAR button in the Programmer twice.

8

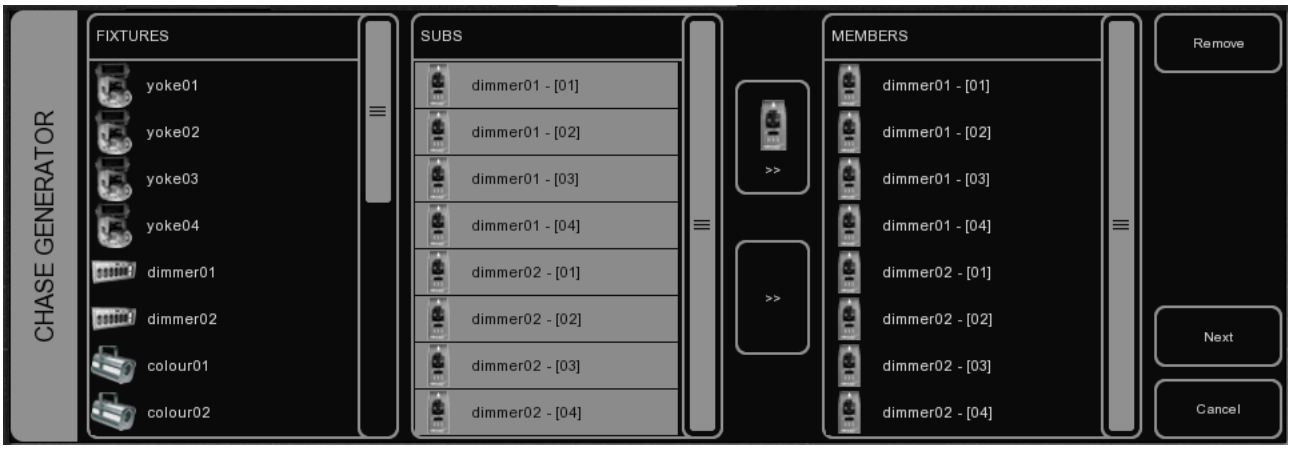
Remove attributes from the Programmer
To remove an attribute from the Programmer-memory to make sure it will not be recorded in a Cue, press the DELETE button and click the Attribute or Attribute-page in the Programmer to knock it out.

Remove fixtures from the Programmer
To remove a complete fixture from the Programmer-memory, select the fixture(s) and click the CLEAR button in the Programmer once.

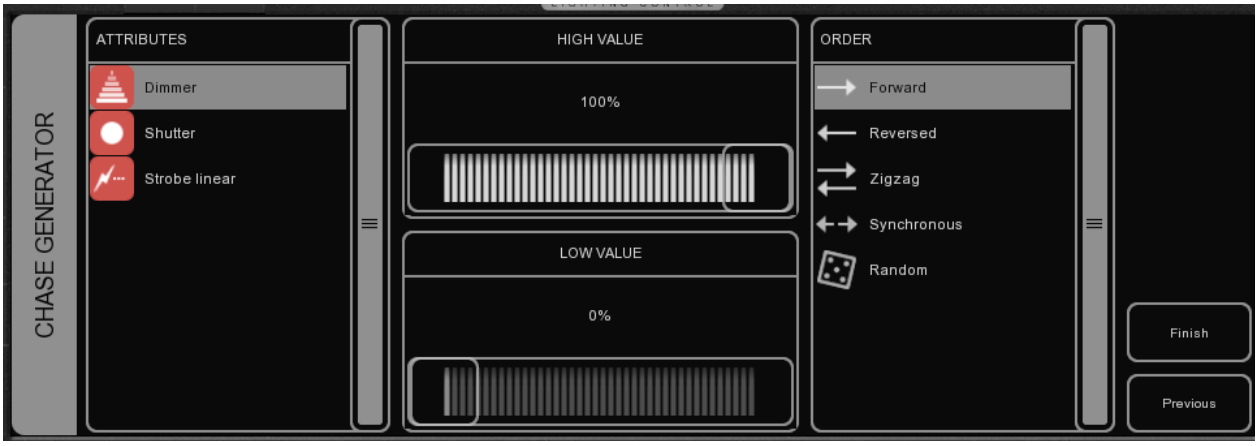
Wizard

Instead of recording a simple chase that consists of one attribute for several fixtures step by step, Cuelux offers you the Wizard. Open the CUE menu and click Wizard to start the Chase-wizard.

Select the fixtures and/or subfixtures you would like to use in the chase and move them to the MEMBERS list. Click NEXT.



Choose the attribute to use in this chase. Enter the HIGH value and the LOW value and choose an order for the chase. For example, a simple chase over 4 dimmerchannels or yokes can be made by selecting attribute Dimmer, HIGH value 100% and LOW value 0%, with order Forward.

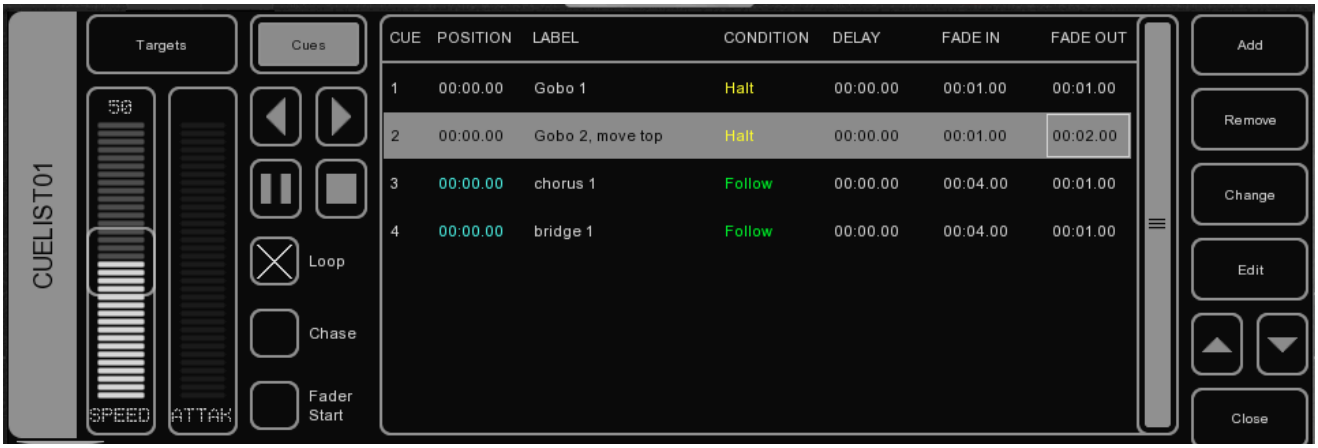


Click FINISH and the cuelist will be generated.

To use the generated cuelist, it has to be connected to a playback fader or button. See chapter 8 "Playback assignment".

6 Modify a Cuelist

To change an existing cuelist, open the CUE menu. Select a Cuelist and click EDIT to open the Cuelist editor. Here you can edit the properties of the CUELIST and the individual cues..



Cuelist Properties

The following properties can be set for the cuelist:

Fader Start

With Fader start enabled, the cuelist will automatically be triggered when the corresponding playback fader is being moved up or the flash button is pressed. The cuelist will also be released as soon as the fader is back at the bottom or when the flash button is released.

Chase

When CHASE is enabled, the cuelist will no longer follow the cues' timings and conditions. The cuelist will be played back as a chase. The crossfade can be changed using the ATTAK slider. The speed of the chase is linked to the main Chase tempo, which can be found at the bottom left of the Cuelux window. All cuelists set to CHASE will run synchronous to this tempo.
In the Cuelist Editor, you can also specify a tempo divider for the chase.
1/1: Chase will step further on every beat of the main chase tempo.
1/2: Chase will step further once in every 2 beats of the main chase tempo.
1/4: Chase will step further once in every 4 beats of the main chase tempo
Etc.

Speed

Speed controls the playback speed of the cuelist. 50% reflects normal playback speed, with the programmed timing per cue. Changing the playback speed will scale the timing for all cues in the cuelist.

Cue properties

The following properties can be set per cue:

Label

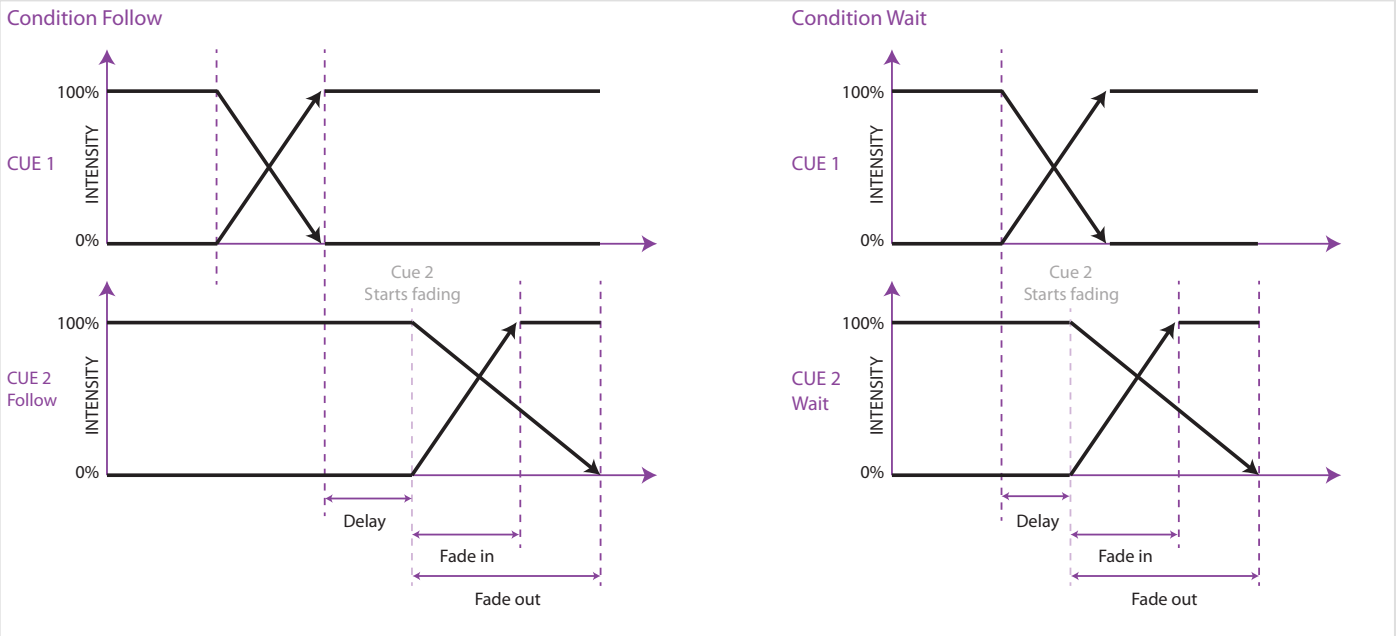
The label is the name of the CUE for your reference.

Condition

The condition specifies when the cue will be triggered. There are 3 possible Conditions:
Halt: The cue will be triggered when you press the GO button.
Follow: The cue will be triggered as soon as the previous cue has finished fading.
Wait: The cue will be triggered immediately after the previous cue has been triggered.

Cue Timing

To explain the different timings in combination with the Cue Condition, see the following diagram:



Delay

The delay time (in seconds) is the time between the cue being triggered, and the cue actually starting to fade.

Fade in

The Fade In time (in seconds) is the fade time for all dimmers fading in (dimmer values going UP) in the cue and all other fading attributes (e.g. colour mix, position).

Fade out

The Fade Out time (in seconds) is the fade time for all dimmers fading out (dimmer values going DOWN) in the cue.
Click and drag to select multiple properties for multiple cues, e.g. fade in for multiple cues or delay & fade in for multiple cues

7 Edit a Cue

There are 3 ways of editing a cue.

Add or change values in a cue

To edit the cue, first make sure the cue is outputted by activating the cuelist and stepping to the cue you want to edit using the PLAY button.

Select the fixtures you want to change, and change the attributes in the Programmer. You can also add other attributes by changing the attributes for the selected fixtures. Even other fixtures can be added: Select them and change the values you would like to store in the cue.

Press RECORD and click on the PLAY button of the cuelist where the cue you want to edit is active. A window will popup, asking you what to do. Choose MERGE to merge the active information in the Programmer with the cue.

Remove values or fixtures from a cue

To remove values or fixtures from a cue, we're going to load the complete cue into the programmer, make the changes, and store the programmer back into the cue by replacing the old information.

Make sure the cue is active by activating the cuelist and stepping to the cue you want to edit using the PLAY button.
Load the cue into the Programmer by pressing LOAD and clicking on the PLAY button of the cuelist. All information in the current cue is now loaded into the Programmer.

To remove a fixture from the Programmer, select the fixture and press CLEAR in the Programmer once. To remove one or more attributes, select the fixtures, press DELETE and click on the attribute, or the attribute-page to delete the attribute or the complete attribute page from the programmer.

To store the Programmer back into the cue, press RECORD and click the PLAY button of the cuelist where the cue you want to edit is active. In the popup window, choose REPLACE to replace the cue with the information in the Programmer.

Cue Editor

A cue can also be edited in the Cue Editor.

Open the CUE menu, select a Cuelist, click EDIT, select a Cue and click EDIT.

Insert

Use Insert to add an attribute to the cue

Delete

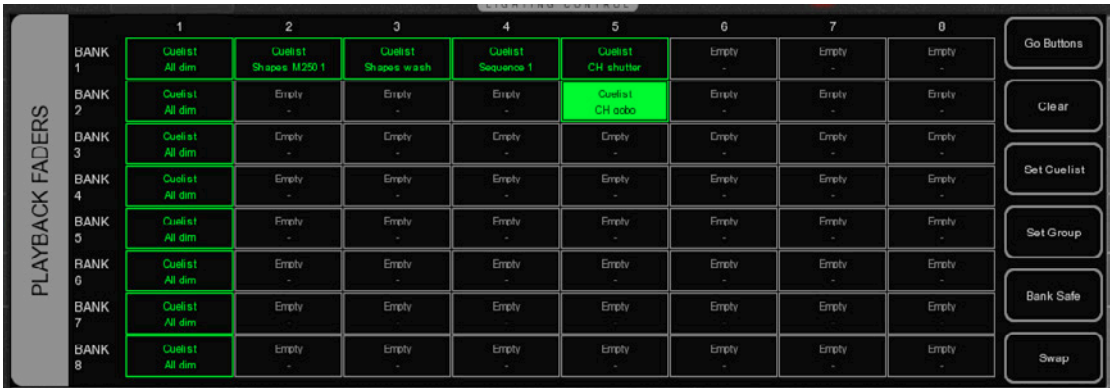
Use Delete to remove an attribute from the cue

Change

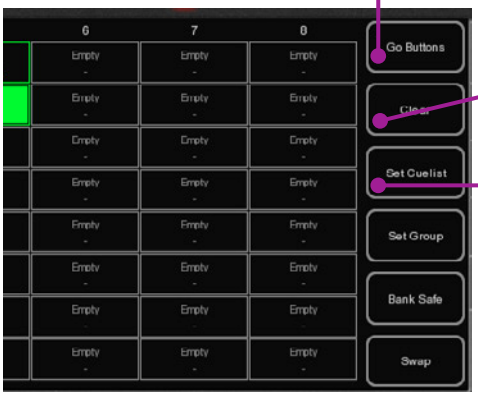
Select one or multiple values and click Change to change the value.

8 Playback assignment

To assign cuelists and groups to playback faders and buttons, you can use the PLAYBACK menu. Open it by pressing the PLAY menu button.



Switch between managing the playback faders or the playback buttons



To clear a playback, select the playback by clicking on the corresponding cell in the table with banks/playbacks. Then click CLEAR

To assign a playback to a cuelist, select the playback in the grid and click SET CUELIST. Choose the cuelist you wish to connect and press OK.

Submasters

When you attach a Group to a playback button, the playback button allows you to quickly select the fixtures in that group. When you attach a Group to a playback fader, the PLAY-button of the playback fader acts as the selection button and the fader becomes a live intensity fader for the group.

! **TIP:** Some cuelists or submasters you will need to change so frequently, that you would like to access them from each bank. You can achieve this quickly by selecting the playback in the table, and clicking BANKSAFE.

9 Loading and saving Shows

The DISK view can be found at the OPTIONS menu. It allows you to save the current show to a new file or to load an existing show.

Click NEW to create a new empty show

Open an existing show file by clicking OPEN and selecting a show in the file-browser

To save the current show to a new file, click SAVE AS and type a new name.

TIP: Cuelux automatically saves changes every few seconds. Therefore, manually saving the show is not required.

10 Globals

On the main screen of Cuelux, you'll notice 3 GLOBALS for FOG, STROBE and BLINDER. These buttons can be instantly used without programming individual cuelists.

BLINDER: All fixtures in the group "blinder" will flash at 100% intensity as long as the button is pressed. Because Cuelux doesn't know to which dimmer-channels the blinders have been connected, you have to create a group with the name "blinder" and include the dimmer-channels or fixtures you wish to use.

STROBE: All strobes in the configuration will strobe while keeping the button pressed

FOG: All fog machines in the configuration will be activated for as long as you keep the button pressed.

! **TIP**: Would you like to use the FOG global only for a selection of fog machines? Create a group, rename it "fog" and add the fog machines of your choice to that group to have them responding to the FOG global.

! **TIP**: Need more strobe-power? Create a group, rename it "strobe" and add fixtures to that group. Don't forget to add the strobes manually to the strobe-group too!

11 Stacks

Using stacks live

To trigger multiple playbacks at the same time during live operating, press the STACK button and click on the PLAY buttons of the playbacks you want to trigger at the same time. As soon as you press STACK again, the selected playbacks will trigger at the same time.

Recording stacks

If you want to repeatedly trigger the same playbacks, recording to a STACK in a STACKLIST comes to use.

Press the STACK button

Click on the PLAY buttons of the playbacks you want to trigger at the same time

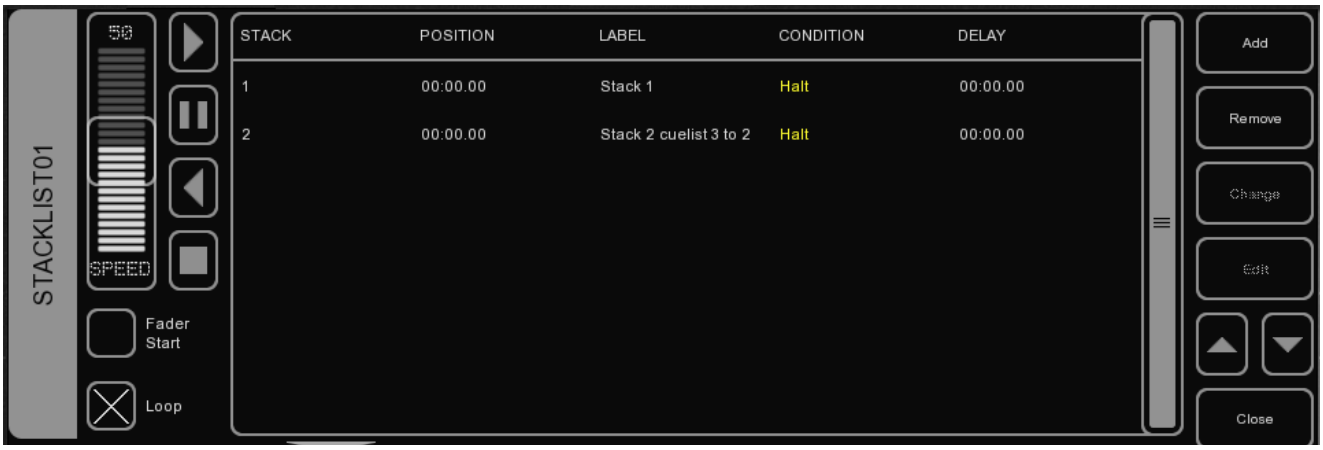
Press RECORD

Click on the PLAY button of an empty playback fader or button

A new STACKLIST will be created containing the new STACK. You can record multiple stacks on the same playback fader or button.

Edit a Stacklist

To edit a Stacklist, double-click on the Playback Indicator above the playback button or playback fader where the Stacklist is recorded.



The Stacklist has several properties you can change. For details about these properties, have a look at the chapter "Modify a Cuelist", as these properties apply to both cuelists and stacklists..

12 Chase Tempo

All Cuelist with property CHASE enabled, are synced to the Chase Tempo. You can find the controls for the Chase Tempo on the bottom left of the Cuelux window

Using the **TEMPO** button below the tempo display, you can tap to the music to change the chase tempo in Cuelux. You can also click the tempo display and drag up (tempo UP) or to the right (tempo DOWN).

Click the **BREAK** button below the tempo display to pause all chases. Click again to continue all chases.

You can also change the tempo by clicking on the tempo display and dragging UP to increase the tempo, or dragging DOWN or to the RIGHT to decrease the tempo.

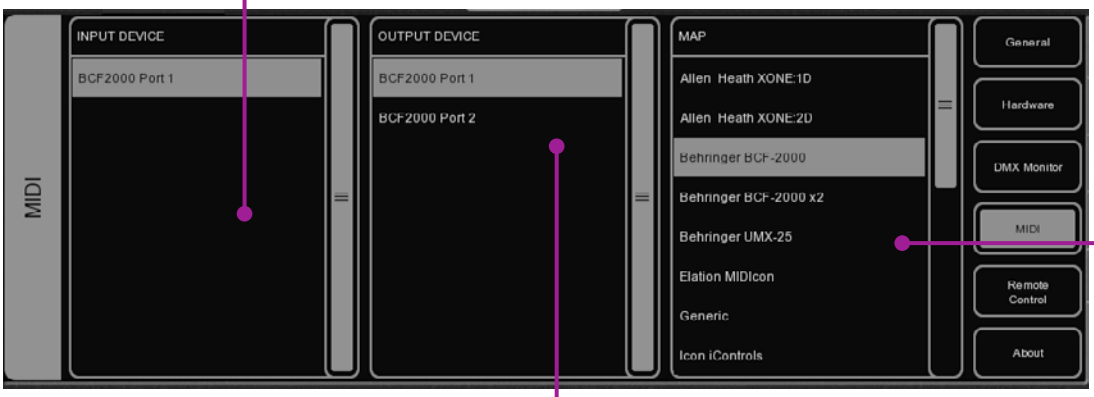
MIDI Clock

When the MIDI Input device you've selected in the MIDI Options (see chapter "MIDI Controllers") receives MIDI Clock from the connected device, the Chase Tempo will be automatically locked to the MIDI Clock tempo. This allows exact tempo matching when controlling Cuelux from sequencer software for a concert, for example.

13 MIDI Controllers

Cuelux offers Plug and Play support for a list of MIDI Controllers. You can quickly setup your MIDI Controller on the MIDI page of the OPTIONS view.

To setup Cuelux for use with your MIDI-controller, go to the MIDI page and select the INPUT DEVICE.



Select what MAP to use for your MIDI-controller

Select the OUTPUT DEVICE for MIDI feedback to the controller

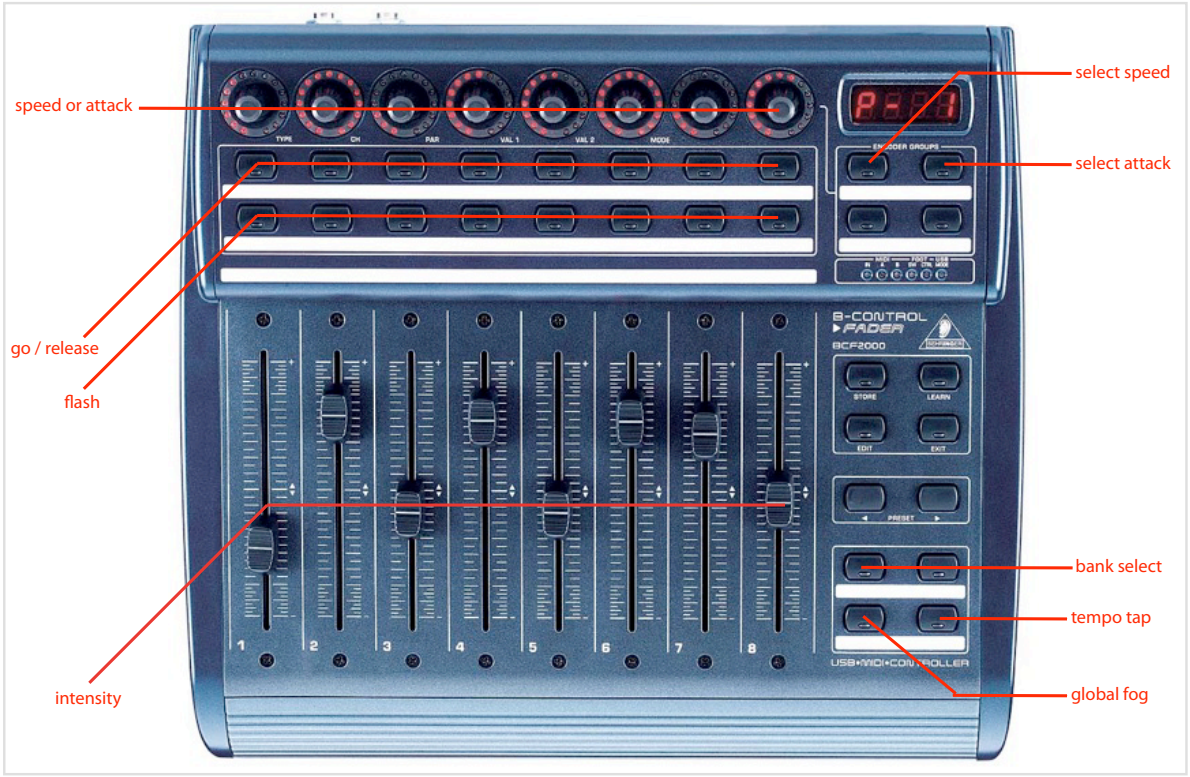
Elation MIDIcon

The Elation MIDIcon is supported Plug and Play:

Behringer BCF-2000

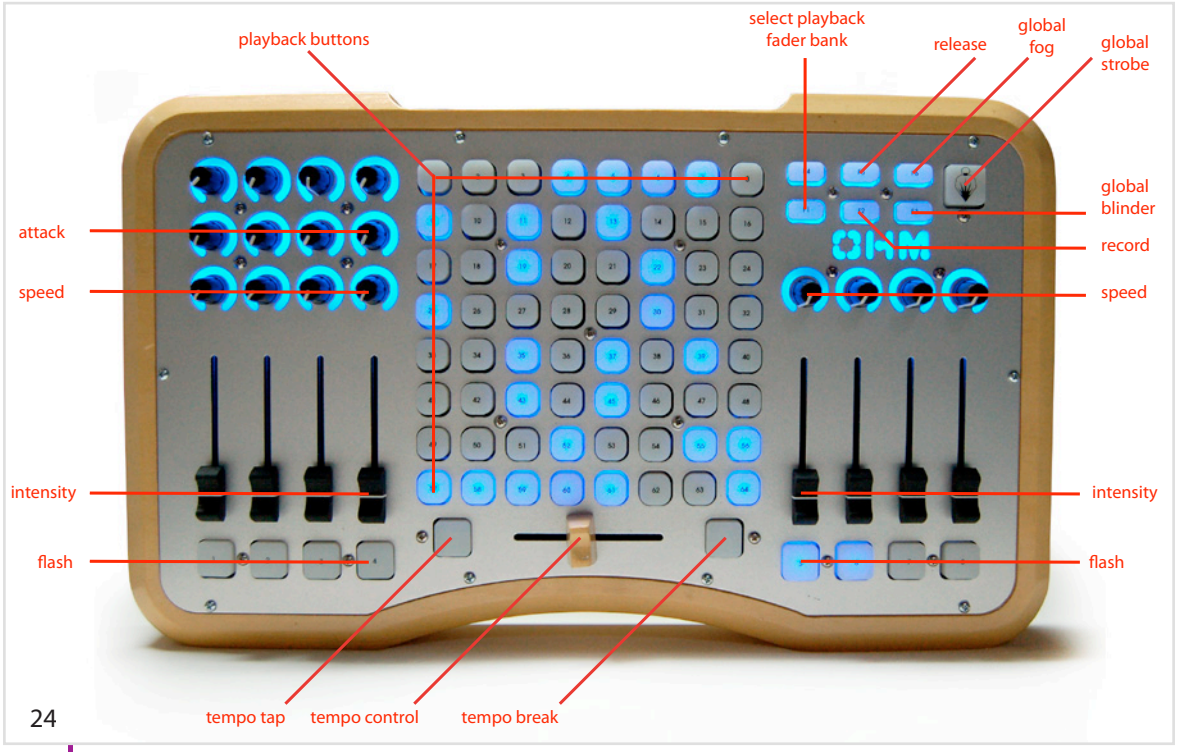
The Behringer BCF-2000 is supported Plug and Play: However, for optimal use we've included a Sysex-file that can either be found in the "Program Files/Visual Productions/Cuelux/Sysex/" folder on Windows systems, or it can be obtained at the forum (http://forum.visualproductions.nl). The Sysex file can be uploaded to the BCF-2000 using one of the following (free) tools:
- Midi-OX for Windows: http://www.midiox.com
- SyEx Librarian for Mac OS X: http://www.snoize.com/SysExLibrarian/

After sending the Sysex file to the BCF-2000, please notice that the received preset is in a "temporary memory". If you switch off the BCF-2000, the preset will be lost. When you've received the preset on the BCF-2000, press STORE, use the PRESET buttons to choose a preset number for storing the preset, and press STORE again. The preset will be saved in the BCF-2000.



Livid Instruments Ohm64

The Livid Instruments Ohm64 is supported Plug and Play.



Novation Launchpad

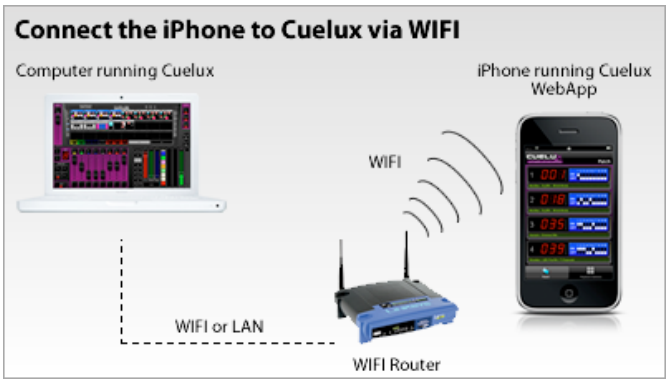
The Novation Launchpad is supported Plug and Play.

! An overview of all supported MIDI controllers can be found at the Cuelux website:
http://www.cuelux.com/features/#midi

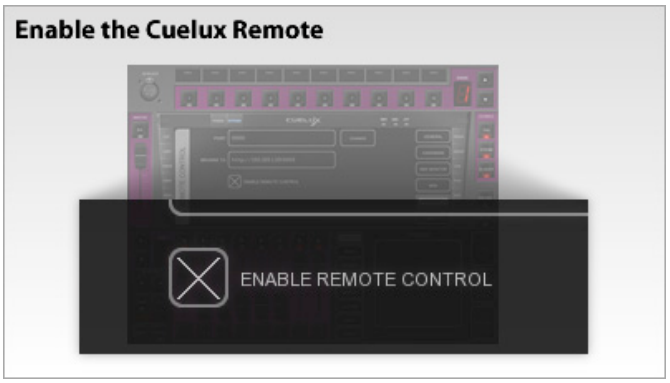
A iPhone Remote

The Cuelux Remote allows you to view the patch including addresses and dipswitch settings per fixture in real-time from your iPhone, and it even allows you to trigger the playback-buttons remote!

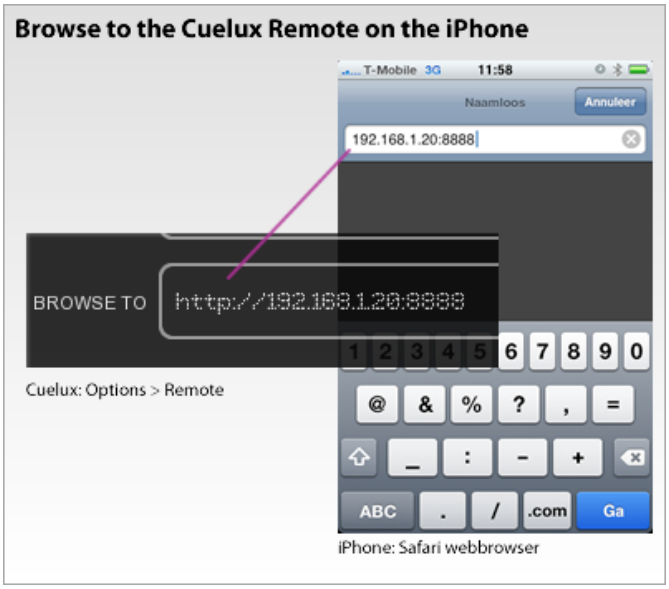
To use the Cuelux Remote on your iPhone, follow the next steps.



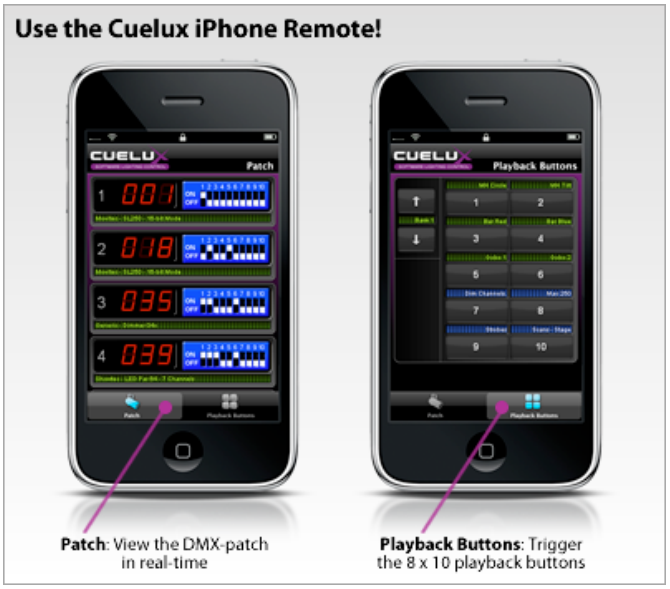
Make sure the computer running Cuelux and your iPhone are connected via WIFI (for example via a simple WIFI router as displayed.



In Cuelux, go to Options -> Remote and enable "'Enable Remote Control".



On your iPhone, browse to the address displayed in Cuelux.


Use the Cuelux iPhone Remote!
Patch
Playback Buttons
Patch: View the DMX-patch in real-time
Playback Buttons: Trigger the 8 x 10 playback buttons

Finished!